

PATENT
Docket No.: 57909/428

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant(s) :	Briles et al.)	Examiner:
)	N. Minnifield
Serial No. :	09/298,523)	
)	Art Unit:
Cnfrm. No. :	2114)	1645
)	
Filed :	April 23, 1999)	
)	
For :	PNEUMOCOCCAL SURFACE PROTEIN C (PspC),)	
	EPITOPIC REGIONS AND STRAIN SELECTION)	
	THEREOF, AND USES THEREFOR)	

STATEMENT IN ACCORDANCE WITH 37 C.F.R. § 1.825(a)-(b)

Mail Stop

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with 37 C.F.R. § 1.825(a)-(b), applicants hereby submit a substitute Sequence Listing (75 pages) on paper and on a computer readable 3.5" Diskette. Applicants hereby state that the substitute Sequence Listing is being submitted to correct typographical errors discovered in SEQ ID NOs: 12 and 13 of the sequence listing, filed March 7, 2001. Applicants hereby state that the amendments included in the substitute Sequence Listing are supported by Figures 2A-D (copies enclosed) of the application, as filed. Applicants submit that the contents of the substitute paper copy and the computer readable form are the same. This submission contains no new matter.

Respectfully submitted,

Dated: June 1, 2004

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Certificate of Mailing - 37 CFR 1.8(a)	
I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents P.O. Box 1450 Alexandria, VA 22313-1450, on the date below,	
<u>June 2, 2004</u>	<u>Ruth R. Smith</u>
Date	Ruth R. Smith



FIG.2A

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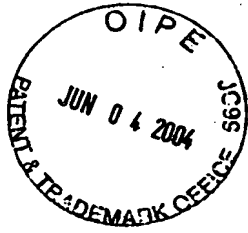
JUN 8 2004
TECH. CFI 160022902

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BG9163 MFASKSERKVVHYS RKFSIGVASVAVASL ELGGVVHHAEGVR --- SGNNTLVTS SGGQDI SKK YADDEVESH
E134 MFASKSERKVVHYS RKFSIGVASVAVASL ELGGVVHHAEGVR --- SGNNTLVTS SGGQDI SKK YADDEVESH
D39 MFASKSERKVVHYS RKFSIGVASVAVASL ELGGVVHHAEGVR --- SGNNTLVTS SGGQDI SKK YADDEVESH
cbpA MFASKSERKVVHYS RKFSIGVASVAVASL ELGGVVHHAEGVR --- SGNNTLVTS SGGQDI SKK YADDEVESH
c3bp MFASKSERKVVHYS RKFSIGVASVAVASL ELGGVVHHAEGVR --- SGNNTLVTS SGGQDI SKK YADDEVESH
spsA2 MFASKSERKVVHYS RKFSIGVASVAVASL ELGGVVHHAEGVR --- SGNNTLVTS SGGQDI SKK YADDEVESH
DBL6A MFASKSERKVVHYS RKFSIGVASVAVASL ELGGVVHHAEGVR --- SGNNTLVTS SGGQDI SKK YADDEVESH
BG8090 MFASKSERKVVHYS RKFSIGVASVAVASL ELGGVVHHAEGVR --- SGNNTLVTS SGGQDI SKK YADDEVESH
spsA47 MFASKSERKVVHYS RKFSIGVASVAVASL ELGGVVHHAEGVR --- SGNNTLVTS SGGQDI SKK YADDEVESH
spsA1 MFASKSERKVVHYS RKFSIGVASVAVASL ELGGVVHHAEGVR --- SGNNTLVTS SGGQDI SKK YADDEVESH
L81905 MFASKSERKVVHYS RKFSIGVASVAVASL ELGGVVHHAEGVR --- SGNNTLVTS SGGQDI SKK YADDEVESH
pspV.tigr MFASKSERKVVHYS RKFSIGVASVAVASL ELGGVVHHAEGVR --- SGNNTLVTS SGGQDI SKK YADDEVESH

EF6796 LESILKDVKKNLK KVVQ HTQNVGLITITKLSSEIEIKKYLIDLVNLSAEELTSTSKTKEITKEKL
BG9163 LESILKDVKKNLK KVVQ HTQNVGLITITKLSSEIEIKKYLIDLVNLSAEELTSTSKTKEITKEKL
E134 I KKM LSEI QEY IEKMLREIQLDRRRK HTQNVGLITITKLSSEIEIKKYLIDLVNLSAEELTSTSKTKEITKEKL
D39 I KKM LSEI QEY IEKMLREIQLDRRRK HTQNVGLITITKLSSEIEIKKYLIDLVNLSAEELTSTSKTKEITKEKL
cbpA I KKM LSEI QEY IEKMLREIQLDRRRK HTQNVGLITITKLSSEIEIKKYLIDLVNLSAEELTSTSKTKEITKEKL
c3bp I KKM LSEI QEY IEKMLREIQLDRRRK HTQNVGLITITKLSSEIEIKKYLIDLVNLSAEELTSTSKTKEITKEKL
spsA2 I KKM LSEI QEY IEKMLREIQLDRRRK HTQNVGLITITKLSSEIEIKKYLIDLVNLSAEELTSTSKTKEITKEKL
DBL6A I KKM LSEI QEY IEKMLREIQLDRRRK HTQNVGLITITKLSSEIEIKKYLIDLVNLSAEELTSTSKTKEITKEKL
BG8090 I KKM LSEI QEY IEKMLREIQLDRRRK HTQNVGLITITKLSSEIEIKKYLIDLVNLSAEELTSTSKTKEITKEKL
spsA47 I KKM LSEI QEY IEKMLREIQLDRRRK HTQNVGLITITKLSSEIEIKKYLIDLVNLSAEELTSTSKTKEITKEKL
spsA1 I KKM LSEI QEY IEKMLREIQLDRRRK HTQNVGLITITKLSSEIEIKKYLIDLVNLSAEELTSTSKTKEITKEKL
L81905 I KKM LSEI QEY IEKMLREIQLDRRRK HTQNVGLITITKLSSEIEIKKYLIDLVNLSAEELTSTSKTKEITKEKL
pspV.tigr I KKM LSEI QEY IEKMLREIQLDRRRK HTQNVGLITITKLSSEIEIKKYLIDLVNLSAEELTSTSKTKEITKEKL

EF6796 TATFEQFKKDTI LPTPEKKVAEAKKKVEEAKKKAEDQKEEDRRNYPTIT
BG9163 TATFEQFKKDTI LPTPEKKVAEAKKKVEEAKKKAEDQKEEDRRNYPTIT
E134 DAAFEKFKKE LPTPEKKVAEAKKKVEEAKKKAEDQKEEDRRNYPTIT
D39 DAAFEKFKKDTI LPTPEKKVAEAKKKVEEAKKKAEDQKEEDRRNYPTIT
cbpA DAAFEKFKKDTI LPTPEKKVAEAKKKVEEAKKKAEDQKEEDRRNYPTIT
c3bp DAAFEKFKKDTI LPTPEKKVAEAKKKVEEAKKKAEDQKEEDRRNYPTIT
spsA2 DAAFEKFKKDTI LPTPEKKVAEAKKKVEEAKKKAEDQKEEDRRNYPTIT
DBL6A DAAFEKFKKDTI LPTPEKKVAEAKKKVEEAKKKAEDQKEEDRRNYPTIT
BG8090 DAAFEKFKKDTI LPTPEKKVAEAKKKVEEAKKKAEDQKEEDRRNYPTIT
spsA47 DAAFEKFKKDTI LPTPEKKVAEAKKKVEEAKKKAEDQKEEDRRNYPTIT
spsA1 DAAFEKFKKDTI LPTPEKKVAEAKKKVEEAKKKAEDQKEEDRRNYPTIT
L81905 DAAFEKFKKDTI LPTPEKKVAEAKKKVEEAKKKAEDQKEEDRRNYPTIT
pspV.tigr DAAFEKFKKDTI LPTPEKKVAEAKKKVEEAKKKAEDQKEEDRRNYPTIT

[illegible]

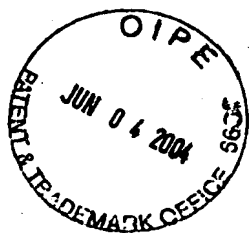


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FIG.2C

	430	440	450	460	470	480	490	
EF6796	LTSKTKAELTAAFEQF	KKIP	KKVAEAEKKVVEEA	KKAKDQKEEDRRN	NYPTNTYK	TTLE	EIAESDVK	
BG9163	LTSKTKAELTAAFEQF	KKIP	KKVAEAEKKVVEEA	KKAKDQKEEDRRN	NYPTNTYK	TTLE	EIAESDVK	
E134	LTSKTKAELTAAFEQF	KKIP	KKVAEAEKKVVEEA	KKAKDQKEEDRRN	NYPTNTYK	TTLE	EIAESDVK	
D39	---	---	---	---	---	---	---	
cbpA	---	---	---	---	---	---	---	
c3bp	---	---	---	---	---	---	---	
spsA2	---	---	---	---	---	---	---	
DBL6A	---	---	---	---	---	---	---	
BG8090	---	---	---	---	---	---	---	
spsA47	---	---	---	---	---	---	---	
spsA1	---	---	---	---	---	---	---	
L81905	---	---	---	---	---	---	---	
pspV.tigr	---	---	---	---	---	---	---	
	430	440	450	460	470	480	490	
EF6796	VKEAELELVKEEA	NEESRN	EKKVQAKA	TRLEKIKITDRK	KAEEEA	EA	KKAAEAKQK	
BG9163	VKEAELELVKEEA	NEESRN	EKKVQAKA	TRLEKIKITDRK	KAEEEA	EA	KKAAEAKQK	
E134	VKEAELELVKEEA	NEESRN	EKKVQAKA	TRLEKIKITDRK	KAEEEA	EA	KKAAEAKQK	
D39	---	---	---	---	---	---	---	
cbpA	---	---	---	---	---	---	---	
c3bp	---	---	---	---	---	---	---	
spsA2	---	---	---	---	---	---	---	
DBL6A	---	---	---	---	---	---	---	
BG8090	---	---	---	---	---	---	---	
spsA47	---	---	---	---	---	---	---	
spsA1	---	---	---	---	---	---	---	
L81905	---	---	---	---	---	---	---	
pspV.tigr	---	---	---	---	---	---	---	
	500	510	520	530	540	550	560	
EF6796	VKEAELELVKEEA	NEESRN	EKKVQAKA	TRLEKIKITDRK	KAEEEA	EA	KKAAEAKQK	
BG9163	VKEAELELVKEEA	NEESRN	EKKVQAKA	TRLEKIKITDRK	KAEEEA	EA	KKAAEAKQK	
E134	VKEAELELVKEEA	NEESRN	EKKVQAKA	TRLEKIKITDRK	KAEEEA	EA	KKAAEAKQK	
D39	---	---	---	---	---	---	---	
cbpA	---	---	---	---	---	---	---	
c3bp	---	---	---	---	---	---	---	
spsA2	---	---	---	---	---	---	---	
DBL6A	---	---	---	---	---	---	---	
BG8090	---	---	---	---	---	---	---	
spsA47	---	---	---	---	---	---	---	
spsA1	---	---	---	---	---	---	---	
L81905	---	---	---	---	---	---	---	
pspV.tigr	---	---	---	---	---	---	---	
	570	580	590	600	610	620	630	
EF6796	VDAEEYALEAKIAE	LEYEVQRLEKEL	KEIDESDSE	EDYLKEGLR	APLQSKL	DTKKAK	LSKLEELSDKIDEL	
BG9163	VDAEEYALEAKIAE	LEYEVQRLEKEL	KEIDESDSE	EDYLKEGLR	APLQSKL	DTKKAK	LSKLEELSDKIDEL	
E134	VDAEEYALEAKIAE	LEYEVQRLEKEL	KEIDESDSE	EDYLKEGLR	APLQSKL	DTKKAK	LSKLEELSDKIDEL	
D39	---	---	---	---	---	---	---	
cbpA	---	---	---	---	---	---	---	
c3bp	---	---	---	---	---	---	---	
spsA2	---	---	---	---	---	---	---	
DBL6A	---	---	---	---	---	---	---	
BG8090	---	---	---	---	---	---	---	
spsA47	---	---	---	---	---	---	---	
spsA1	---	---	---	---	---	---	---	
L81905	---	---	---	---	---	---	---	
pspV.tigr	---	---	---	---	---	---	---	



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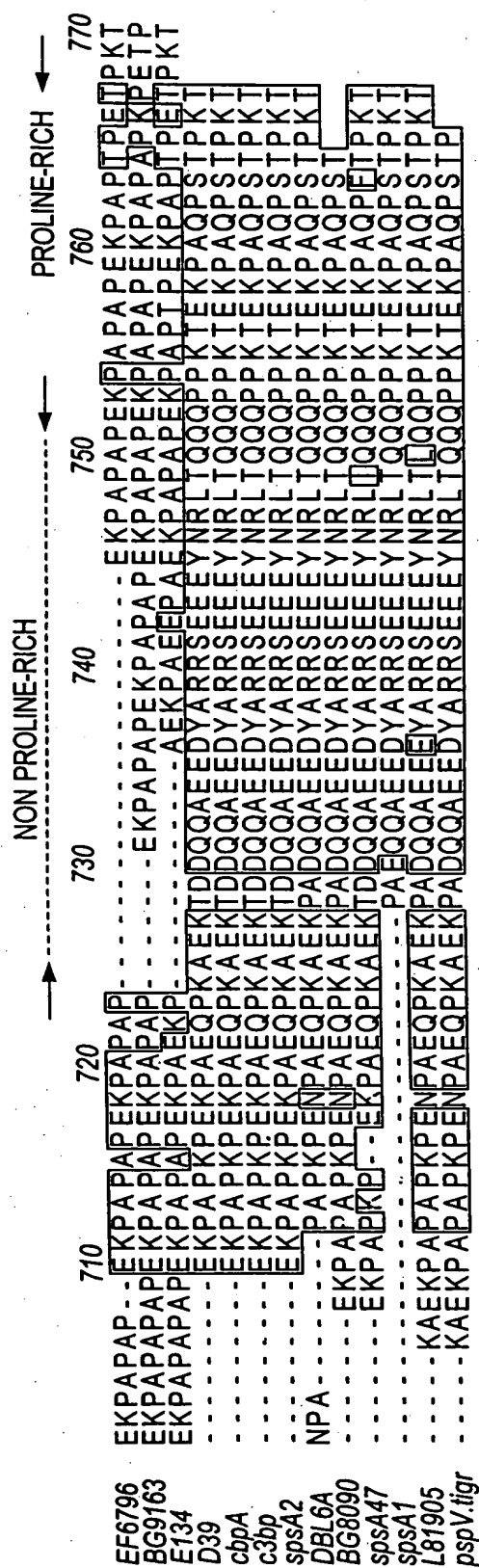
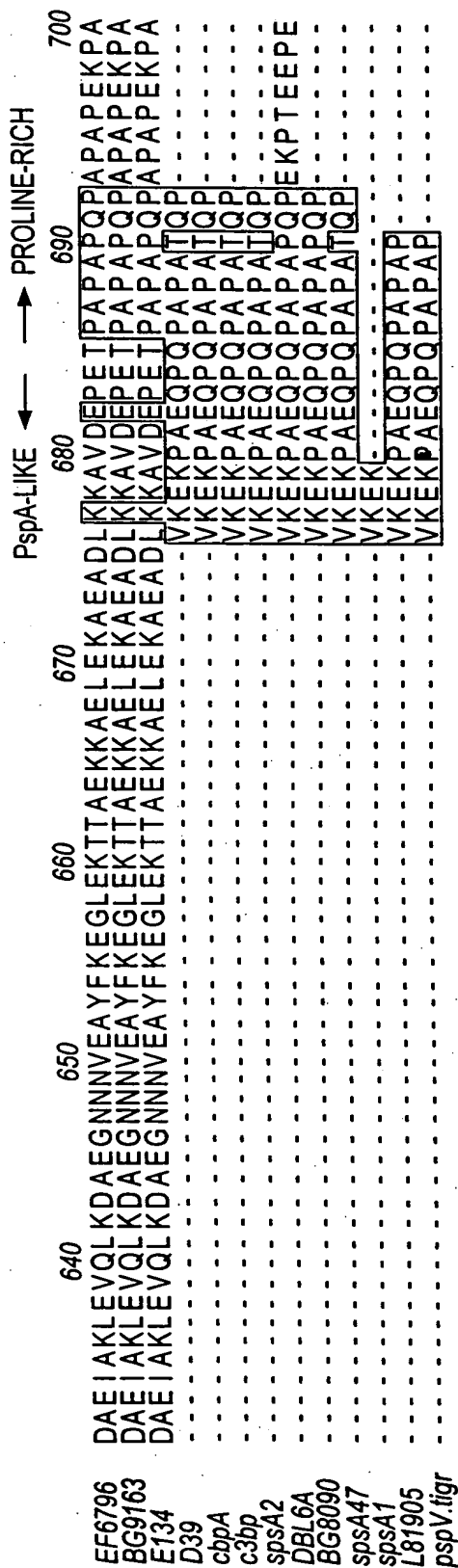


FIG. 2D